

## **ABSTRACT**

### **LOCALIZATION OF CUSTOMER PREMISES IN A LOCAL LOOP BASED ON REFLECTOMETRY MEASUREMENTS**

In the course of a reflectometry-based qualification procedure of a  
5 local loop, which connects customer premises to a central office of a  
telecommunication network, and in the event of being unable to identify the  
loop termination associated with the customer premises, a second  
reflectometry measurement of the local loop is carried out with a different  
impedance load at the customer premises. Next, the two reflectograms are  
10 compared with each other in the time domain in order to delineate among  
all the reflections those at the customer premises and to determine  
therefrom the position of the customer premises in the local loop.